



Year A Acorn Class Autumn Topic and Key Knowledge	Year A Acorn Class Spring Topic and Key Knowledge	Year A Acorn Class Summer Topic and Key Knowledge
<b>Year 1 Autumn, Term 1</b>  <b>Internet Safety</b>  <b>Sticky Knowledge</b>  I know how to use technology safely.  I know where to go for help if I am concerned.  I know how to keep my personal information private.  I know which websites are safe me to use.  I know how to use an iPad camera to take photographs.  <b>EYFS Starting Points</b>  Why do we use the internet?  What do I do if something worrying or unexpected happens when I'm using the internet?	<b>Year 1 Spring, Term 1</b>  <b>Programming</b>  <b>Sticky Knowledge</b>  I can give instructions to my friend and follow their instructions to move around.  I know what happens when I press buttons on a programmable robot.  I know what an algorithm is.  I know how to create a set of instructions and plan a journey for a programmable toy.  I know what the word debug means when I correct mistakes.  I know how to use some apps/software to create movement	<b>Year 1 Summer, Term 1 and 2</b>  <b>Multimedia</b>  <b>Sticky Knowledge</b>  I know how to use technology to present some of my ideas.  I know how to save information and retrieve it.  I know how to use the keyboard or a word bank to enter text.  <b>EYFS Starting Points</b>  How do I move objects on a screen?  How do I create shapes and writing on a screen?  How can I use technology to help me with my learning?

<p>How do I stay kind to my friends?</p> <p>How much time should I spend using a computer/tablet/game device?</p> <p>What can technology be used for?</p>	<p><b>EYFS Starting Points</b></p> <p>Which computer games and software do I like to use?</p> <p>What happens when I touch or click on buttons when I'm using simple software?</p> <p>How do I make a programmable toy move?</p>	
<p><b>Internet Safety Vocabulary</b></p> <p>internet, device, computer, laptop, iPad, tablet, camera, personal information</p>	<p><b>Handling Data Vocabulary</b></p> <p>software, programmable toy, instructions, algorithm, debug, test</p>	<p><b>Multi Media Safety Vocabulary</b></p> <p>keyboard, word bank, drawing program, save, retrieve</p>
<p><b>Year 1 Autumn, Term 2</b></p> <p><b>Technology in our Lives</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how we use technology in our classrooms</p> <p>I know how technology is used at home.</p> <p>I understand the benefits of using technology.</p>	<p><b>Year 1 Spring Term, 2</b></p> <p><b>Handling Data</b></p> <p>I can talk about the different ways in which information can be shown.</p> <p>I know how to use technology to collect information, including photos, video and sound.</p> <p>I know how to sort different kinds of information and present it to others.</p>	

<p>I know how to use links to websites to find information.</p> <p><b>EYFS Starting Points</b></p> <p>What technology do we use in school?</p> <p>What technology do we use at home?</p> <p>What technology do you use e.g. iPads, laptop, etc.</p> <p>How can technology be used to help me play and learn?</p>	<p>I know how to add information to a simple graph e.g. block graph or pictogram and talk about what I have found out.</p> <p><b>EYFS Starting Points</b></p> <p>Tell me about the different kinds of information we have e.g. pictures, video, text and sound...</p> <p>How do we take a photograph on an iPad/tablet?</p>	
<p><b>Technology in our lives vocabulary</b></p> <p>device, laptop, computer, iPad, tablet, mobile phone, game console, X Box, Switch, Playstation, TV</p>	<p><b>Handling Data vocabulary</b></p> <p>data, pictogram, block graph, popular, least popular, camera, photograph, sound, microphone, record</p>	

Year A Oak Class Autumn Topic and Key Knowledge	Year A Oak Class Spring Topic and Key Knowledge	Year A Oak Class Summer Topic and Key Knowledge
<b>Autumn, Term 1</b>  <b>Internet Safety</b>  <b>Sticky Knowledge</b>  I know why I need to keep my password and personal information private.  I can describe the things that happen online that I must tell an adult about.  I know why I should only go online for a short amount of time.  I know why it is important to be kind and polite online and in real life.  I know that not everyone is who they say they are on the internet.	<b>Spring, Term 1</b>  <b>Handling Data</b>  <b>Sticky Knowledge</b>  I can talk about the different ways I use technology to collect information, including a camera, sound recorder and possibly a microscope.  I know how to make and save a chart or graph using the data I have collected.  I can talk about the data that is shown in my chart or graph.  I know what type of information I could use to help me investigate a question.  I can start to tell you about a branching database.	<b>Summer Term 1 &amp; 2</b>  <b>Multimedia</b>  <b>Sticky Knowledge</b>  I know how to use technology to organise and present my ideas in different ways.  I can use the keyboard on my device to add, delete and space text for others to use.  I can tell you about an online tool I can use that can help me to share my ideas with other people.  I know how to save and open files on the device I am using.
<b>Internet Safety vocabulary</b>  Internet safety, personal information, online rules, concerns, password	<b>Handling Data vocabulary</b>  data, information, frequency, graph, chart, most popular, least popular, block graph, pictogram, bar chart	<b>Multimedia vocabulary</b>  keyboard, mouse, screen, save, open, retrieve, delete, space, text, image, font, colour, size

<p><b>Autumn, Term 2</b></p> <p><b>Programming</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how to give instructions to my friend (using forward, backward and turn) and physically follow their instructions.</p> <p>I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</p> <p>I know how to program a robot or software to do a particular task.</p> <p>I can look at my friend's program and tell you what will happen.</p> <p>I know how to use programming software to make objects move.</p> <p>I know how to debug simple programmes after I have noticed it has gone wrong.</p>	<p><b>Spring, Term 2</b></p> <p><b>Technology In Our Lives</b></p> <p><b>Sticky Knowledge</b></p> <p>I can tell you why I use technology in the classroom.</p> <p>I know how to use the keyboard on my device to add, delete and space text for others to read.</p> <p>I can tell you about an online tool that will help me to share ideas with other people.</p> <p>I can tell you what kind of information I could use to help me investigate a question.</p>	
<p><b>Programming vocabulary</b></p> <p>algorithm, instructions, debug, program, forwards, backwards, left, right, full turn, quarter turn, half turn</p>	<p><b>Technology in our lives vocabulary</b></p> <p>laptop, computer, keyboard, delete, space, enter, text, image</p>	

Year B Oak Class Autumn Topic and Key Knowledge	Year B Oak Spring Term Topic and Key Knowledge	Year B Oak Class Summer Topic and Key Knowledge
<b>Autumn, Term 1</b>  <b>Internet Safety</b>  <b>Sticky Knowledge</b>  I know what makes a secure password and know why passwords are important.  I know how to protect my personal information when I do different things online.  I can use the safety features of websites as well as knowing how to report concerns to an adult.  I know how to make good choices about how long I spend online.  I can recognise websites and games appropriate for my age.  I know to ask an adult before downloading files and games from the internet.  I know the importance of posting positive comments online.	<b>Spring, Term 1</b>  <b>Handling Data</b>  <b>Sticky Knowledge</b>  I can talk about the different ways data can be organised.  I know how to search a ready-made database to answer questions.  I know how to answer a question by collecting data.  I know how to add to a database.  I know how to make a branching database.  I know how to use a data logger to monitor changes and talk about the information collected.	<b>Summer, Term 1 &amp; 2</b>  <b>Multimedia</b>  <b>Sticky Knowledge</b>  I know how to create different effects with different technology tools.  I know to combine a mixture of text, graphics and sound to share my ideas and learning.  I know how to use appropriate keyboard commands to amend text on my device, including making use of a spell checker.  I know how to evaluate my work and improve its effectiveness.  I can use an appropriate tool to share my work online.

<b>Internet safety vocabulary</b>  Internet safety, personal information, online rules, concerns, password, positive comments	<b>Handling Data vocabulary</b>  database, branching database, data, data logger, pictogram, bar char, block graph, frequency, least/most popular	<b>Multimedia vocabulary</b>  keyboard, graphics, image, spell checker, text, sound, word, drawing programs
<b>Autumn, Term 2</b>  <b>Programming</b>  <b>Sticky Knowledge</b>  I know how to break an open-ended problem up into smaller parts.  I can put programming commands into a sequence to achieve a specific outcome.  I know how to keep testing my program and can recognise when I need to debug it.  I know how to use repeated commands.  I can describe the algorithm I will need for a simple task.  I can explain how to detect a problem in an algorithm which could result in unsuccessful programming.	<b>Spring, Term, 2</b>  <b>Technology In Our Lives</b>  <b>Sticky Knowledge</b>  I know how to save and retrieve work on the internet, the school network or my own device.  I can talk about the different parts of the computer.  I know some of the different ways of communicating online.  I can talk about the World Wide Web as the part of website that contains websites.  I know how to use search tools to find and use an appropriate website.	

<b>Programming vocabulary</b>  algorithm, instructions, debug, program, forwards, backwards, left, right, full turn, quarter turn, half turn, clockwise, anticlockwise, repeat command, sequence, decomposition, programming	<b>Technology in our lives vocabulary</b>  World Wide Web (www), internet, websites, laptop, device, computer, iPad, tablet, mobile phone, network, save, retrieve, keyboard, screen	
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Year A Willow Class Autumn Topic and Key Knowledge	Year A Willow Class Spring Topic and Key Knowledge	Year A Willow Class Summer Topic and Key Knowledge
<b>Autumn, Term 1</b>  <b>Internet Safety</b>  <b>Sticky Knowledge</b>  I know what makes a password secure and why they are important.  I know the importance of protecting my personal information when I do different things online.  I know how to use the safety features of websites and know when to report concerns to an adult.  I can recognise websites and games that are appropriate for my age.  I know how to make good choices about how long I spend online.  I know to ask an adult before downloading files and games from the internet.  I know to only post positive comments online.	<b>Spring, Term 1</b>  <b>Handling Data</b>  <b>Sticky Knowledge</b>  I know some of the different ways data can be organised.  I know how to search a ready-made database to answer questions.  I can collect data to help me answer a question.  I know how to add to a database.  I know how to make a branching database.  I know how to use a data logger to monitor changes and talk about the information collected.	<b>Summer, Term 1 &amp; 2</b>  <b>Multimedia</b>  <b>Sticky Knowledge</b>  I know how to create different effects with different technology tools.  I know how to combine a mixture of text, graphics and sound to share my ideas and learning.  I know how to use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.  I know how to evaluate my work and improve its effectiveness.  I can use an appropriate tool to share my work online.

<b>Internet Safety vocabulary</b>  Internet safety, personal information, online rules, concerns, password, positive comments	<b>Handling Data vocabulary</b>  database, branching database, data, data logger, pictogram, bar char, block graph, frequency, least/most popular, pie chart	<b>Multimedia vocabulary</b>  keyboard, graphics, image, spell checker, text, sound, word, drawing programs
<b>Autumn, Term 2</b>  <b>Programming</b>  <b>Sticky Knowledge</b>  I know how to break up an open-ended problem into smaller parts (decomposition).  I know how to put programming commands into a sequence to achieve a specific outcome.  I know to test my program and can recognise when I need to debug it.  I know how to use repeat commands.  I can describe the algorithm I need for a simple task.  I know how to detect a problem in an algorithm which could result in unsuccessful programming.	<b>Spring, Term 2</b>  <b>Technology in Our Lives</b>  <b>Sticky Knowledge</b>  I know how to save and retrieve work on the internet, the school network or my own device.  I know the different parts of the computer.  I know how I should be communicating with others online.  I can describe the World Wide Web as part of the internet that contains websites.  I know how to use search tools to find and use an appropriate website.  I know how to use image that I find online in my own work.	
<b>Programming vocabulary</b>  algorithm, instructions, debug, program, forwards, backwards, left, right, full turn, quarter	<b>Technology in our lives vocabulary</b>	

turn, half turn, clockwise, anticlockwise, repeat command, sequence, decomposition, programming	World Wide Web (www), internet, websites, laptop, device, computer, iPad, tablet, mobile phone, network, save, retrieve, keyboard, screen	
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Year B Willow Class Autumn Topic and Key Knowledge	Year B Willow Class Spring Topic and Key Knowledge	Year B Willow Class Summer Topic and Key Knowledge
<b>Autumn, Term 1</b>  <b>Internet Safety</b>  <b>Sticky Knowledge</b>  I know the importance of choosing a secure password and username.  I know to protect my password and other personal information.  I can explain how to protect myself and my friends and the best way to do this. This includes reporting concerns to an adult.  I know that anything I post online can be seen, used and may affect others.  I know the dangers of spending too long online or playing a game.	<b>Spring, Term 1</b>  <b>Handling Data</b>  <b>Sticky Knowledge</b>  I know how to use a spreadsheet and database to collect and record data.  I can choose an appropriate tool to help me collect data.  I can present data in an appropriate way.  I know how to search a database using different operators to refine my search.  I understand how mistakes in data can be checked.	<b>Summer, Term 1 &amp; 2</b>  <b>Multimedia</b>  <b>Sticky Knowledge</b>  I know how to use text, photo, sound and video editing tools to refine my work.  I know how to select, use and combine the appropriate technology tools to create effects that will have an impact on others.  I can select an appropriate online tool to share ideas.  I can review and improve my own work and support others to improve their work.

<p>I know the importance of communicating kindly and respectfully.</p> <p>I know the importance of choosing an age appropriate website, app or game.</p> <p>I can explain why I need to protect my computer or device from harm</p>		
<p><b>Internet Safety vocabulary</b></p> <p>username, secure password, age appropriate websites/games/apps, digital footprint, cyberbullying, personal information</p>	<p><b>Handling data vocabulary</b></p> <p>data, spreadsheet, database, search, operators, pie chart, bar chart, frequency table, axis</p>	<p><b>Multimedia vocabulary</b></p> <p>text, image, sound, record, save, retrieve, powerpoint, word, excel,</p>
<p><b>Autumn, Term 2</b></p> <p><b>Programming</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how to decompose a problem into smaller parts.</p> <p>I know how to design an algorithm for a specific outcome and use this to write a program.</p> <p>I know how to use a variable e.g. lives in a game, points in a game, use a counting timer to measure time.</p>	<p><b>Spring, Term 2</b></p> <p><b>Technology in Our Lives</b></p> <p><b>Sticky Knowledge</b></p> <p>I can describe different parts of the internet.</p> <p>I know how to use different online tools for different purposes.</p> <p>I know how to use a search engine to find appropriate information and check its reliability.</p> <p>I know how to evaluate different types of information I find on the World Wide Web.</p>	

<p>I know how to change an input to a program to achieve a different outcome.</p> <p>I know how to use 'if' and 'then' commands to select an action.</p> <p>I know how to use logical reasoning to detect and debug mistakes in a program.</p>		
<p><b>Programming vocabulary</b> outcomes, input, output, logical reasoning, algorithm, debug, 'if' command, 'then' command, variable, decompose, decomposition</p>	<p><b>Technology in our lives vocabulary</b> search engines, reliability, internet</p>	

Year C Willow Class Autumn Topic and Key Knowledge	Year C Willow Class Spring Topic and Key Knowledge	Year C Willow Class Summer Topic and Key Knowledge
<p><b>Autumn, Term 1</b></p> <p><b>Internet Safety</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how to protect my password and other personal information.</p> <p>I can explain the consequences of sharing too much about myself online.</p> <p>I know how to support my friends to protect themselves online, including reporting concerns to an adult.</p>	<p><b>Spring, Term 1</b></p> <p><b>Handling Data</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how to select the most appropriate tool to collect data for my investigation.</p> <p>I can collect my own data and interpret it.</p> <p>I can present the data I collect in an appropriate way.</p>	<p><b>Summer, Term 1 &amp; 2</b></p> <p><b>Multimedia</b></p> <p><b>Sticky Knowledge</b></p> <p>I can decide how I would like to present my ideas.</p> <p>I can combine a range of media, recognising the contribution of each to achieve a particular outcome.</p> <p>I can explain why I select a specific online tool for a specific purpose.</p> <p>I can evaluate my own work and that of others.</p>

<p>I can explain the consequences of spending too much time online or on a game.</p> <p>I can explain the consequences of not communicating kindly and respectfully online.</p> <p>I know how to protect my computer or device from harm on the internet.</p>		
<p><b>Internet Safety vocabulary</b></p> <p>username, secure password, age appropriate websites/games/apps, digital footprint, cyberbullying, personal information</p>	<p><b>Handling data vocabulary</b></p> <p>data, spreadsheet, database, search, operators, pie chart, bar chart, frequency table, axis</p>	<p><b>Multimedia vocabulary</b></p> <p>text, image, sound, record, save, retrieve, powerpoint, word, excel</p>
<p><b>Autumn, Term 2</b></p> <p><b>Programming</b></p> <p><b>Sticky Knowledge</b></p> <p>I know how to deconstruct a problem into smaller steps, recognising similarities to solutions used before.</p> <p>I can explain and program each of the steps in my algorithm.</p> <p>I know how to evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm.</p> <p>I know how to use a variable and operators to stop a program.</p>	<p><b>Spring, Term 2</b></p> <p><b>Technology in Our Lives</b></p> <p><b>Sticky Knowledge</b></p> <p>I can select an appropriate tool to communicate and collaborate online.</p> <p>I can talk about the way search engines are selected and ranked.</p>	

<p>I can use different inputs to control a device or onscreen action and predict what will happen.</p> <p>I know how to use logical reasoning to detect and correct errors in algorithms and programs.</p>		
<p><b>Programming vocabulary</b>  outcomes, input, output, logical reasoning, algorithm, debug, 'if' command, 'then' command, variable, decompose, decomposition</p>	<p><b>Technology in our lives vocabulary</b>  search engines, ranking,</p>	